No.



9500149

THE UNITED SHATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

IIR Cooperatibe

Mhrtens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A SBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'FFR 553'

In Jestimonn Phereof. I have hereunto sel my hand and caused the seal of the Hunt Natisty Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of May in the year of our Lord one thousand nine hundred and ninety-seven.

Jarsha J.

Signer
Variety Protection Office
Variety Murketing Service

Secretary of Syriculture

REPRODUCE LOCALLY. Include form number and U.S. DEPARTMENT OF AGRECA AGRICULTURAL MARKETING	CULTURE SERVICE	The following statements are me 1974 (5 U.S.C. 552a).	FORM APPROVED - OMB NO. 0581- ade in accordance with the Privacy Ad		
SCIENCE DIVISION - PLANT VARIETY PR	* *	and the second second			
APPLICATION FOR PLANT VARIETY PR (Instructions and information collection but					
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)	our statement on reverse,	2. TEMPORARY DESIGNATION OR	3. VARIETY NAME		
FFR Cooperative		EXPERIMENTAL NUMBER			
		39389	FFR 553		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP (Code, and Country)	5. TELEPHONE <i>Gnclude area code)</i>	FOR OFFICIAL USE ONLY		
4112 East State Road 225		217/567 0115	PVPO NUMBER		
West Lafayette, IN 47906	The second of th	317/567-2115	4500/49		
		6. FAX (include area code)	DATE		
		317/567-4046	April 28, 1995		
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botani	I	G FRING AND EXAMINATION FEE.		
Glycine max	Leguminos	ae ·	! ·2325 ** /125 **		
9. CROP KIND NAME (Common name)			S DATE		
Soybean	*		4/24/95/5/5/		
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM	OF ORGANIZATION (corporation, partnershi	p, association, etc.) (Common name)	C CERTIFICATION FEE:		
Corporation 11. IF INCORPORATED, GIVE STATE OF INCORPORATION			V Contraction		
Wisconsin	,	12. DATE OF INCORPORATION	E DATE		
		1960	646		
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF	ANY, TO SERVE IN THIS APPLICATION A	NO RECEIVE ALL PAPERS	14. TELEPHONE (include area code)		
Lloyd McCall			901/668-2711		
FFR Cooperative	:		16. FAX (include area code)		
Route 1, Box 78 Bells, TN 38006		•	901/664-8474		
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMIT	TED (Follow instructions on myerse)	· · · · · · · · · · · · · · · · · · ·			
a. 🖾 Exhibit A. Origin and Breeding History of the Veriety		•			
b. Exhibit B. Statement of Distinctness	•		A Company of the Company		
c. 🖾 Exhibit C. Objective Description of the Variety	• .				
d. Exhibit D. Additional Description of the Variety					
e. \(\begin{align*}\begin{align*}\left\) Exhibit E. Statement of the Basis of the Applicant's Own \(\begin{align*}\begin{align*}\left\) Sample (2.500 wights supposed and a second of the second o	· ·				
 Voucher Sample (2,500 viable untreated seeds or, for tules. Filing and Examination Fee (\$2,450), made payable to "T 	respondence valueties ventication that tiss	we culture will be deposited and maintaine or	d in a public repository)		
7. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY I	BE SOLD BY VARIETY NAME ONLY, AS A	CLASS OF CERTIFIED SEED? (See Section	n 83(a) of the Plant Variety Protection Act)?		
B. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY !	ANO 81 "no," go to	· · · · · · · · · · · · · · · · · · ·	OF PRODUCTION BEYOND BREEDER SEED?		
GENERATIONS?		☐ FOUNDATION ☐ REGISTERE			
D. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY	TY BEEN RELEASED, USED, OFFERED FOR	SALE, OR MARKETED IN THE U.S. OR O'	THER COUNTRIES?		
YES (If "yes," give names of countries and dates)		1994			
Offered for sale in the United	d States during May,				
Offered for sale in the United	d States during May,	Will be replenished upon request in account	lance with such regulations as may be		
Offered for sale in the United The applicant(s) declare that a viable sample of basic seed of the v	d States during May, ariety will be furnished with application and e deposited in a public repository and maint	will be replenished upon request in according to the duration of the certificate.			
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Exhibit A. Origin and Breeding History of the Variety

Pedigree: A6381 x Pioneer Brand 5482

"FFR 553" was derived in 1987 as a single plant selection from the F4 generation of a cross that was made in 1985 near Jackson, TN. A modified single seed descent breeding method was used to advance the segregating generations. Seed from the F4 plant selection was grown during 1988 in a single row observation plot near Jackson, TN.

FFR 553, identified as experimental 39389, was first tested in a replicated yield trial in 1989 at three locations. In 1990, testing was expanded to four locations and a seed increase was initiated. The line was advanced to the elite trials in 1991. Elite testing and seed production continue to the present time.

FFR 553 appears stable and uniform from the 1988 plant row through the present during our testing and seed increase program. Flower, pubescence, and hilum color off-types have appeared at a frequency of up to 1% in the past. The variety is essentially free of contaminates at the present time.

Exhibit B. Novelty Statement

"FFR 553" is most similar to "FFR 561"; however, the varieties differ in the following characteristics:

•	score 1.5 1.8 ight (cm) 77 88 width (cm) 7.2 7.5 length (cm) 12.3 12.	ETY
TRAIT	<u>FFR 553</u>	FFR 561
Days to Maturity	131	134
Lodging score	1.5	1.8
Plant height (cm)	77	88
Leaflet width (cm)	7.2	7.5
Leaflet length (cm)	12.3	12.7
G/100 seed	14.1	13.2
Pubescence Color	Brown	Gray
Flower Color	Purple	White

EXHIBIT C (Soybeen)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.J

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
FFR Cooperative	39389	FFR 553
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code 4112 East State Road 225 West Lafayette, IN 47906		FOR OFFICIAL USE ONLY PVPO NUMBER 9500149
Choose the appropriate response which characterizes the vari in your answer is fewer than the number of boxes provided, p Starred characters * are considered fundamental to an adequ when information is available.	place a zero in the first box w	hen number is 9 or less (e.g., 0 9).
1. SEED SHAPE: 2 L L W 1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)		L/W ratio > 1.2; L/T ratio = < 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)		_/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed) 1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed) 2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy	/'; 'Gasoy 17')	· .
4. SEED SIZE: (Mature Seed) 1 4 Grams per 100 seeds		
5. HILUM COLOR: (Mature Seed) 6 1 = Buff 2 = Yellow 3 = Brown 4	= Gray 5 = Imperfect Blac	k 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed) 1 = Yellow 2 = Green	, · · · · · · · · · · · · · · · · · · ·	
7. SEED PROTEIN PEROXIDASE ACTIVITY: 1 = Low 2 = High		•
8. SEED PROTEIN ELECTROPHORETIC BAND: 1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)		
9. HYPOCOTYL COLOR: 1 = Green only ('Evans'; 'Davis') 2 = Green with E 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Colored and the second secon	oronze band below cotyledons ('W	'oodworth'; 'Tracy')
0. LEAFLET SHAPE: 3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	•

FORM LMGS-470-57 (6-83)

(Edition of 2-82 is obsolete.)

11. LEA	AFLET SIZE:	•	-		·
2	1 = Small ('Amsoy 71'; 'A5312') 2 = M 2 3 = Large ('Crawford'; 'Tracy')	edium ('Corsoy 79'; 'C	Gasoy 17')		
12. LEA	AF COLOR:				·
2	1 = Light Green ('Weber'; 'York') 2 = M 3 = Dark Green ('Gnome'; 'Tracy')	edium Green (*Corsoy	79'; 'Braxton')		•
★ 13. FLO	OWER COLOR:		•	•	
2	1 = White 2 = Purple 3 = White	with purple throat			
★ 14. POD	COLOR:				
1	1 = Tan 2 = Brown 3 = Black			٠	
★ 15. PLAN	NT PUBESCENCE COLOR:		 	· · · · · · · · · · · · · · · · · · ·	
2	1 = Gray 2 = Brown (Tawny)		-	•	
16. PLAN	NT TYPES:				
2	1 = Slender ('Essex'; 'Amsoy 71') 2 = ini 3 = Bushy ('Gnome'; 'Govan')	termediate ('Amcor'; '	'Braxton')	•	
17. PLAN	NT HABIT:	.			
	1 = Determinate ('Gnome'; 'Braxton') 2 = Set 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	mi-Determinate ('Will'	"		
18. MATU	TURITY GROUP:				
0 8	1 = 000 2 = 00 3 = 0 4 = I 9 = VI 10 = VII 11 = VIII 12 = I		6 = III	7 = IV	8 = V
19. DISEA	EASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 =	Resistant)	-		·
ВАС	CTERIAL DISEASES:				
* 0	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)				
★ 0	Bacterial Blight (Pseudomonas glycinea)	<i>,</i> ,	-		
* 0	Wildfire (Pseudomonas tabaci)	·			
FUNG	GAL DISEASES:				
* 0	Brown Spot (Septoria glycines)	•	٠.		
<u> </u>	Frogeye Leaf Spot (Cercospora sojina)				
*	Race 1 Race 2 Race 3	Race 4	Race 5	2 Other (Sp	ecify) unknown races field screens
	Target Spot (Corynespora cassiicola)		•		
	Downy Mildew (Peronospora trifoliorum var. manshurica)				
	Powdery Mildew (Microsphaera diffusa)		:	•	
* []	Brown Stem Rot (Cephalosporium gregatum) Stem Canker (Diaporthe obaseolorum var. caulivora)	•	•		

19.	DISEA	SE REACTIO	N: (Enter 0 = Not	Tested; 1 = Susceptible	; 2 = Resistant)	(Continued)		
	FUN	GAL DISEAS	SES: (Continued)		•	•		
*				phaseolorum var ; soj a		•		÷
	0		Stain (Cercospora k	•	•	•.		
	0							
	رف		Root Rot (Rhizoct			. •	•	•
*	0		[2]	ra megasperma var. soj				57
		Race 1	Race 2	Race 3	Race 4	Pace 5	Race 6	Race 7
	0	Race 8	O Race 9	Other (Specif	fy)			
	VIRA	L DISEASES	S :		•			-
		Bud Blight (Tobacco Ringspot V	/irus)			•	
	0	Yellow Mos	aic (Bean Yellow Mo	saic Virus)				
*	0	Cowpea Mos	aic (Cowpea Chloro	tic Virus)			·	
	0	Pod Mottle	Bean Pod Mottle Vi	rus}				
*	0	Seed Mottle	(Soybean Mosaic Vi	rus)	-		· •	
	NEMA	ATODE DISE	ASES:		•			
		Soybean Cys	t Nematode (Hetero	dera glycines)				
*		Race 1	0 Race 2	1 Race 3	1 Race 4	1 Other (Specify) Race 5	
	0	Lance Nema	tode (Hoplolaimus C	Colombus) ;	-	 -	•	
*		Southern Ro	ot Knot Nematode (Meloidogyne incognita	a) .	•	· •	
*	Ö	•		Meloidogyne Hapla)			•	
				eloidogyne arenaria)				•
•		Reniform Ne	matode <i>(Rotylench</i> u	ulus reniformis)				
	드의		•	IM (Specify):		· 		
			·		-			
20. P	HYSIO	OGICAL RE	SPONSES: (Enter () = Not Tested; 1 = Su	sceptible; 2 = R	esistant)		· · · · · · · · · · · · · · · · · · ·
*	0	tron Chlorosi	s on Calcareous Soil		-			
		Other <i>(Specif</i>	y/					
21. 11	VSECT F	REACTION:	(Enter 0 = Not Test	ed; 1 = Susceptible; 2	= Recietant)		·	
:	\bigcirc		Beetle (Epilachna v	•	·			
	0		opper (Empoasca fa					
ĺ					`			
22. IN				SELY RESEMBLES T				
	CHARA			OF VARIETY				OUSTY
	int Shap	- , · ,	Hutcheson	 -		ARACTER	NAME OF VA	AHIE I Y
	af Shape		FFR 561	<u> </u>	Seed S	Coat Luster	FFR 563 A5403	
	of Color	-	FFR 646		Seed S		FFR 595	
Lea	f Size	· ·	FFR .561			ng Pigmentation	н6686	,
		···				•		•

Page 3 of 4

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Submitted	I31	.1.5 t		12.3	7.2	40.8	19.5	14.1	
FFR 561 Name of Similar Variety	134	1.8	88	12.7	7.5	40.4	20.1	13.2	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Exhibit D. Additional Description of the Variety

"FFR 553" is a determinate, mid-maturity group V soybean variety. It has purple flowers, brown pubescence, tan pods, yellow seed coats, and black hilum. It is susceptible to the Soybean Cyst Nematode (Heterodera glycines) races 3, 14, and 5, and Phytophthora Root Rot (Phytophthora megasperma var. sojae) race 4. It is resistant to Stem Canker (Diaporthe phaseolorum var. caulivora), Phytophthora Root Rot races 2 and 7, and has demonstrated field tolerance to Frogeye Leaf Spot (Cercospora sojina).

Exhibit E. Statement of the Basis of Applicant's Ownership.

"FFR 553" was bred and developed by a number of plant breeders employed by FFR Cooperative. FFR Cooperative is the sole owner of this soybean variety.